

### **AMENDMENTS TO THE SPECIFICATION**

On page 3, please amend the paragraph beginning on line 1 as follows:

An object of the present invention is to provide a fluorescent material of terbium aluminum garnet having a formula  $(\text{Tb}_{3-x-y}\text{Ce}_x\text{Re}_y)(\text{Al}_{5-z}\text{O}_{12}\text{Me}_z)$ , wherein  $0 < x \leq 0.8$ ,  $0 < y \leq 2.0$ ,  $0 < z \leq 1.0$ , wherein Re is preferably gadolinium (Gd). Nevertheless, Re can be at least one of gadolinium (Gd), rubidium (Rb), thulium (Tm), praseodymium (Pr), samarium (Sm), europium (Eu), dysprosium (Dy), holmium (Ho), erbium (Er), ytterbium (Yb), lutetium (Lu), strontium (Sr), yttrium (Y), vanadium (V), and chromium (Cr), and wherein Me is ~~silicene~~ silicon that is added or substituted. A blue light-emitting diode may be used as an exciting light source for exciting the fluorescent material to generate an excited light. The excited light and the exciting light are mixed to generate a pure white light. The brightness and color evenness of a white light-emitting diode made from the fluorescent material in accordance with the present invention are improved in comparison to those of a conventional white light-emitting diode using a fluorescent material into which only cerium is added. Further, the chromatic coordinate of the fluorescent material in accordance with the present invention can be adjusted.

On page 4, please amend the paragraph beginning on line 2 as follows:

To achieve the aforementioned objects, the present invention provides a fluorescent material of terbium aluminum garnet having a formula  $(\text{Tb}_{3-x-y}\text{Ce}_x\text{Re}_y)(\text{Al}_{5-z}\text{O}_{12}\text{Me}_z)$ , wherein  $0 < x \leq 0.8$ ,  $0 < y \leq 2.0$ ,  $0 < z \leq 1.0$ , wherein Re is preferably gadolinium (Gd). Nevertheless, Re can be at least one of gadolinium (Gd), rubidium (Rb), thulium (Tm), praseodymium (Pr), samarium (Sm), europium (Eu), dysprosium (Dy), holmium (Ho), erbium (Er), ytterbium (Yb), lutetium (Lu), strontium (Sr), yttrium (Y), vanadium (V), and chromium (Cr), and wherein Me is ~~silicene~~ silicon that is added or substituted. A blue light-emitting diode may be used as an exciting light source for exciting the fluorescent material to generate an excited light. The excited light and the exciting light are mixed to generate a pure white light.

On page 11, please amend the paragraph beginning on line 21 as follows:

In accordance with the present invention, cerium, gadolinium, and/or ~~silicon~~silicon are added into the lattice of matrix crystal of the TAG to produce a fluorescent material that is suitable for manufacture of light-emitting diodes. The optical characteristics of the fluorescent material are examined by a photoluminescence spectrometer, thereby finding out the wavelength of the optical exciting light through examination of the exciting spectrum. The TAG having a formula  $(\text{Tb}_{2.755}\text{Ce}_{0.045}\text{Gd}_{0.2})\text{Al}_5\text{O}_{12}$  (or  $(\text{Tb}_{3-x-y}\text{Ce}_x\text{Gd}_y)\text{Al}_{5-z}\text{O}_{12}\text{Me}_z$ ) produced by the synchronous precipitation method is examined by a light source with wavelength 549.8 nm to find out the wavelength of the optimal exciting light. As illustrated in Fig. 1, the optimal exciting light is an exciting light with wavelength between 430 nm and 490 nm, particularly 470 nm.